

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: IINUMA 2

In re Application of:)	Conf. No.:
Hidehiko IINUMA et al.)	
)	
IA No: PCT/JP2004/016811)	Art Unit:
)	
IA Filed: November 5, 2004)	Examiner:
)	
Appln. No.:)	Washington, D.C.
Not yet assigned)	
)	May 12, 2006
For: AN Mg-BASED FERRITE, AN)	
ELECTROPHOTOGRAPHIC...)	

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop Amendment
401 Dulany Street
Alexandria, VA 22314

Sir:

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

[X] 1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed:

[X] A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.

[] B. before the mailing date of a first office action on the merits or before the mailing of a first Office

action after the filing of a Request for Continued Examination under 37 CFR §1.114; or

☐ C. after (A) and (B) above, but before final rejection or allowance, and Applicant has made the necessary certification (box "i" below) or paid the necessary fee (box "ii" below):

☐ i. Counsel certifies that, upon information and belief, each item of information listed herein either was

☐ (a) first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ (b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, not known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this IDS.

☐ ii. Credit Card Payment Form, PTO-2038, is attached authorizing payment of the fee set forth in 37 CFR §1.17(p), presently believed to be \$180. If the enclosed payment is incorrect, please charge any additional fees or credit any overpayment to Deposit Account No. 02-4035 of the undersigned.

☒ 2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form BN/SB/08A/B) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. Other than U.S. patent(s) and/or published U.S. application(s), which 37 CFR §1.98(a)(2)(ii) does not require to be filed

unless specifically required by the Office, a copy of each document listed is attached, except as explained below:

☐ A. Document(s) _____ is/are deemed substantially cumulative to document(s) _____, and, in accordance with 37 CFR §1.98(c), a copy of each of the former document(s) is not enclosed.

☐ B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

(insert serial numbers and filing dates of prior applications)

Applicant identifies these documents by attaching hereto copies of the forms PTO-892, PTO-1449, PTO/SB/08a and/or PTO/SB/08b (or their BN form equivalents) from the files of the prior application(s) or a fresh BN/SB/08A and/or BN/SB/08B listing these documents, and request that they be considered and made of record in accordance with 37 CFR §1.98(d). Per 37 CFR §1.98(d), copies of these documents need not be filed in this application.

☒ 3. Documents AK, AM, and AO are not in the English language. In accordance with 37 CFR §1.98(a)(3), Applicant states:

☒ An English translation of each document AK, AM, and AO (or of the pertinent portions thereof), or a copy of an English-language abstract (or claim) is enclosed.

☒ For documents AM and AO, a corresponding English-language patent or published application is included on the accompanying Form BN/SB/08A, with a line drawn in the margin connecting the non-English-language document with its corresponding English-language document.

☐ A concise explanation of the relevance of document(s) _____ is found in the attached

_____ search report (see reply to
Comment 68 in the preamble to the final rules;
1135 OG 13 at 20).

[X] A concise explanation of the relevance of
documents AK, AM, and AO is set forth as follows:

(1) Japanese patent publication (Koukoku) No.62-037782B (AK)

Document (AK) discloses the patented claims of
Japanese Patent No.1, 688,677.

The patented claims include only one claim, and
teach a magnetic carrier particle having a composition of the
following formula [I] represented by a divalent metal oxide
and a trivalent metal oxide:



where M represents Mg or a combination of Mg with
one or more of Zn, Cu, Mn and Co, provided that if M includes
Mg and one or more of other elements, the atomic ratio of Mg
in M is at least 0.05; and x is more than 53 mol%.

Document (AK) teaches that the saturation
magnetization of the particle is preferably at least 35emu/g,
but does not teach the dielectric breakdown voltage defined in
the amended claims.

(2) Japanese Patent No.3,243,376 (AO)

The claims of this patent (Document (AO)) teach that
the ferrite carrier should contain MnO, MgO and SrO as the
essential components. Meanwhile, the ferrite material of the

present invention does not contain MnO as the essential components. The present invention is different from the invention of the above patent in this point.

(3) Japanese Patent No.2, 860,356 (AM)

This patent (Document (AM)) relates to a magnetic oxide particle composed of magnetite (Fe_3O_4) and non-magnetic phase. Meanwhile, the ferrite material of the present invention does not contain magnetite. The present invention is different from the invention of the above patent in this point.

Please refer to table 1 of the U.S. patent No. 5,538,656.

[X] A concise explanation of the relevance of documents AK, AM, and AO can be found on pages 3-4 of the specification.

[] A concise explanation of the relevance of document(s) _____ can be found on the attached sheet.

[X] 4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

[X] 5. Other information being provided for the examiner's consideration follows:

International Search Report


6. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is

considered to be, material to patentability as defined in 37 CFR §1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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BN/SB/08A/B

IAP12 Rec'd PCT/PTO 12 MAY 2006

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	Not yet assigned
Filing Date	Even date herewith
First Named Inventor	Hidehiko IINUMA
Group Art Unit	
Examiner Name	
Attorney Docket Number	IINUMA 2

Sheet

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of

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US- 2,576,456	11-27-1951	Harvey et al.	
	AB	US- 2,977,312	03-28-1961	E.W. Gorter et al.	
	AC	US- 3,770,639	11-06-1973	Okazaki et al.	
	AD	US- 5,466,552 A	11-14-1995	Sato et al.	
	AE	US- 5,538,656 A	07-23-1996	Mano et al.	
	AF	US- 5,595,850 A	01-21-1997	Honjo et al.	
	AG	US- 5,795,693 A	08-18-1998	Okado et al.	
	AH	US- 6,090,517 A	07-18-2000	Tamura et al.	
	AI	US- 6,309,558 b1	10-30-2001	Kinoshita et al.	
	AJ	US- 2001/0045541 A1	11-29-2001	Inoue	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AK	JP 62-37782 B2	08-14-1987	TDK Electronics Co. Ltd.		ABS
	AL	EP 0 686 886 a1	12-13-1995	Powdertech Co. Ltd.		
	AM	JP 2,860,356 B2	12-11-1998	Fuji Electrochemical Co. Ltd.		ABS
	AN	EP 1 065 191 a1	01-03-2001	TDK Corporation		
	AO	JP 3,243,376 b2	10-19-2001	Powder Tech		ABS

NON PATENT LITERATURE DOCUMENTS / OTHER INFORMATION

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²

Examiner
SignatureDate
Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.